

11-17-3

1754

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. 15913.39.1
In Re Application Of: Bing Zhou, et al			
Serial No. 10/618,808	Filing Date July 14, 2003	Examiner Unassigned	Group Art Unit 1754
Title: <b>SUPPORTED CATALYSTS HAVING A CONTROLLED COORDINATION STRUCTURE AND METHODS FOR PREPARING SUCH CATALYSTS</b>			
<div>Address to: Assistant Commissioner for Patents Washington, D.C. 20231</div> <div>37 CFR 1.97(b)</div> <div>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</div> <div>37 CFR 1.97(c)</div> <div>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of: <div><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</div><div>OR</div><div><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</div></div>			

EV396739536US

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
15913.39.1

In Re Application: Bing Zhou, et al.

NOV 14 2003

Serial No.

10/618,808

Filing Date

July 14, 2003

Examiner

Unassigned

Group Art Unit

1754

**SUPPORTED CATALYSTS HAVING A CONTROLLED COORDINATION STRUCTURE AND METHODS  
PREPARING SUCH CATALYSTS**

**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 23-3178 as described below. A duplicate copy of this sheet is enclosed.
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Signature

Dated: November 14, 2003

John M. Guynn  
Attorney for Applicant  
Customer No. 022913

CC:



PATENT APPLICATION  
Docket: 15913.39.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
)  
Bing Zhou, et al. )  
)  
Serial No.: 10/618,808 ) Art Unit  
) 1754  
Filed: July 14, 2003 )  
)  
Confirmation No.: 5792 )  
)  
For: SUPPORTED CATALYSTS HAVING A )  
CONTROLLED COORDINATION STRUCTURE )  
AND METHODS FOR PREPARING SUCH )  
CATALYSTS )  
)  
Examiner: Unknown )

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CERTIFICATE OF MAILING BY "EXPRESS MAIL"

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated below in an envelope addressed to Box: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

- Transmittal for Information Disclosure Statement (2 pg.)
- Information Disclosure Statement (3 pgs.)
- Form PTO-1449 (4 pgs.)
- Copy of (4) references
- Postcard

Dated this 14 day of November 2003.

Respectfully submitted,

Kimberly Kendrick  
Paralegal to John M. Guynn

NOV 14 2003  
PATENT & TRADEMARK OFFICE

Docket No.: 15913.39.1

In re application of:

Serial No.: 10/618,808

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For: SUPPORTED CATALYSTS HAVING A )  
CONTROLLED COORDINATION STRUCTURE )  
AND METHODS FOR PREPARING SUCH )  
CATALYSTS )

Examiner: Unknown

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

In accordance with 37 C.F.R. § 1.98(c), all English translations within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) of each nonenglish reference, if any, are also enclosed.

Statement of Relevance of References Listed  
Unaccompanied by English Translation  
Under 37 C.F.R. § 1.98(a)(3)

In accordance with 37 C.F.R. § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

WO98/108863

A palladium-base catalyst which can selectively hydrogenate highly unsaturated hydrocarbon compounds contained in small amounts in an olefin compound prepared by steam cracking or the like of naphtha without causing hydrogenation of the olefin as a side reaction and the precipitation of a carbonaceous material. The catalyst comprises palladium and alumina, and the exposed face of each palladium crystallite is mainly accounted for by (100) and (110) faces. Further, in the desorption of adsorbed hydrogen by heating, desorption peaks are observed in the

temperature ranges of 40 to 90° C and 120 to 170° C and the ratio of hydrogen desorption amount of the former to the latter is (4 : 6) to (3 : 7).

Dated this 14<sup>th</sup> day of November, 2003.

Respectfully submitted,



JOHN M. GYNN

Attorney for Applicant

Registration No. 36,153

Customer No. 022913

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Applicant: Bing Zhou, et al.

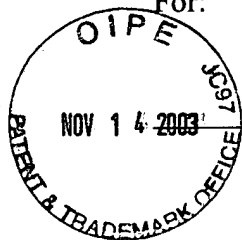
Serial No. 10/618,808

Att'y Docket No. 15913.39.1

Confirmation No. 5792

Group: 1754

Filing Date: July 14, 2003

For: SUPPORTED CATALYSTS HAVING A CONTROLLED  
COORDINATION STRUCTURE AND METHODS FOR PREPARING  
SUCH CATALYSTSINFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>
___ 1	4,007,256	02/08/1977	Kim et al.
___ 2	4,028,274	06/07/1977	Kunz
___ 3	4,128,627	12/05/1978	Dyer et al.
___ 4	4,335,092	06/15/1982	Dalton et al.
___ 5	4,336,239	06/22/1982	Dalton et al.
___ 6	4,336,240	06/22/1982	Moselay et al.
___ 7	4,347,231	08/31/1982	Michaelson
___ 8	4,347,232	08/31/1982	Michaelson
___ 9	4,476,242	10/09/1984	Puskas et al.
___ 10	4,701,428	10/20/1987	Bellussi et al.
___ 11	4,713,363	12/15/1987	Hucul
___ 12	4,824,976	04/25/1989	Clerici et al.
___ 13	4,937,216	06/26/1990	Clerici et al.

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Bing Zhou, et al.

Serial No. 10/618,808

Att'y Docket No. 15913.39.1

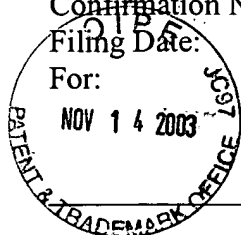
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SUPPORTED CATALYSTS HAVING A CONTROLLED  
COORDINATION STRUCTURE AND METHODS FOR PREPARING  
SUCH CATALYSTS



____ 14	4,937,220	06/26/1990	Nickols, Jr.
____ 15	5,024,905	06/18/1991	Itoh et al.
____ 16	5,061,671	10/29/1991	Kitson et al.
____ 17	5,096,866	03/17/1992	Itoh et al.
____ 18	5,104,635	04/14/1992	Kanada et al.
____ 19	5,166,372	11/24/1992	Crocco et al.
____ 20	5,214,168	05/25/1993	Zajacek et al.
____ 21	5,338,531	08/16/1994	Chuang et al.
____ 22	5,372,981	12/13/1994	Witherspoon
____ 23	5,399,344	08/16/1994	Kawakami et al.
____ 24	5,698,488	12/16/1997	Birbara et al.
____ 25	5,767,036	06/16/1998	Freund et al.
____ 26	5,900,386	05/04/1999	Freund et al.
____ 27	5,912,367	06/15/1999	Chang
____ 28	5,961,948	10/05/1999	Wanngard
____ 29	5,965,101	10/12/1999	Goto et al.
____ 30	6,090,858	07/18/2000	El-Sayed
____ 31	6,168,775	01/02/2001	Zhou et al.

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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COORDINATION STRUCTURE AND METHODS FOR PREPARING  
SUCH CATALYSTS

_____ 32	6,194,338	02/27/2001	Andolfatto et al.
_____ 33	6,284,213	09/04/2001	Paparatto et al.
_____ 34	6,500,968	12/31/2002	Zhou et al.
_____ 35	6,518,217	02/11/2003	Xing et al.
_____ 36	6,534,661	03/18/2003	Zhou et al.
_____ 37	6,576,214	06/10/2003	Zhou, et al.

#### Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publication Date</u>	<u>Country or Patent Office</u>
_____ 38	EP 0864362	09/16/1998	EPO
_____ 39	EP 0978316	02/09/2000	EPO
_____ 40	WO 98/10863	03/19/1998	Japan

#### Other Documents

(including author, title, pertinent pages, etc.)

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Bing Zhou, et al.

Serial No. 10/618,808

Att'y Docket No. 15913.39.1

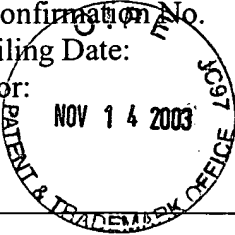
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SUPPORTED CATALYSTS HAVING A CONTROLLED  
COORDINATION STRUCTURE AND METHODS FOR PREPARING  
SUCH CATALYSTS



Examiner

Initial\*

\_\_\_\_\_ 41 "Shape-Controlled Synthesis of Colloidal Platinum Nanoparticles" by T. Ahmadi  
et al, Science, vol. 272, Jun. 28, 1996, pp. 1924-1926

### References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.